

FORM PTO-1449			
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE			
STATEMENT (use several sheets if necessary)			
SERIAL NO.	08/410,539	CASE NO.	7823/5
FILING DATE	March 24, 1995	GROUP ART UNIT	1817
APPLICANT(S): Matthew B. Wheeler			

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
A1	5,175,383	12/1992	Leder et al.	822/2	02/17/89
A2	5,175,384	12/1992	Krimpenfort et al.	822/2	12/05/88
A3	5,175,385	12/1992	Wagner et al.	822/2	09/03/87

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO
A4	EP 0169672	01/1986	EPO		
A5	WO 90/03432	04/1990	PCT		
A6	WO 90/01541	02/1990	PCT		
A7	WO 92/22646	12/1992	PCT		
A8	GB 2,213,831	08/1989	UK		
A9	WO 94/03585	02/1994	PCT		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
A10	Axelrod, H.R., "Embryonic Stem Cell Lines Derived from Blastocysts by a Simplified Technique," <i>Developmental Biology</i> , 101:225-228 (1984).	
A11	Bazer, F.W., et al., "Fertilization, Cleavage and Implantation," in <i>Reproduction in Farm Animals</i> , 5th ed., ed. Hafez, E.S.E., Lea & Febiger, Philadelphia, PA (1987).	
A12	Bearden, J.H., et al., "Gestation," <i>Applied Animal Reproduction</i> , pp. 85-98, Reston Publishing Company, Reston, VA (1980).	

EXAMINER	DATE CONSIDERED
3/15/97	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449			
LIST OF PATENTS AND PUBLICATIONS FOR			
APPLICANT'S INFORMATION DISCLOSURE			
(use several sheets if necessary)			
SERIAL NO.	08/410,539	FILING DATE	March 24, 1995
CASE NO.	7823/5	GROUP ART UNIT	
APPLICANT(S): Matthew B. Wheeler			

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
A13	Bishop, Jerry E., "Sheep-cloning Method Holds Promise Of Fast Introduction of Livestock Traits, News Article, 1996.	
A14	Black, G.T., et al., "Single-Base Polymorphisms and DNA Sequence of the Porcine α -Lactalbumin 5' Flanking Region," <i>J. Dairy Sci.</i> , (Suppl.1):946 (1994).	
A15	Bradley, A., et al., "Formation of germline chimeras from embryo-derived teratocarcinoma cells lines," <i>Nature</i> , 309:255-256 (1984).	
A16	Brinster, et al., "Targeted correction of a major histocompatibility class II E α gene by DNA microinjected into mouse eggs," <i>Proc. Natl. Acad. Sci.</i> , 86:7087-7091 (1989).	
A17	Capechi, Mario R., "The new mouse genetics: Altering the genome by gene targeting," <i>Trends in Genetics</i> , 5(3):70-76 (1989).	
A18	Clark, A.J., et al., "Germ line manipulation: applications in agriculture and biotechnology," <i>Transgenic Animals</i> , p. 250, Grosfeld, et al., eds., Academic Press Limited (1992).	
A19	Clark, et al., "Expression of human anti-hemophilic factor IX in the milk of transgenic sheep," <i>Biotechnology</i> , Vol 7:487-492 (1989).	
A20	Crutz, Y.P., et al., "Origin of embryonic and extraembryonic cell lineages in mammalian embryos," in <i>Animal Application of Research in Mammalian Development</i> , eds. Pedersen, R.A., et al., Cold Spring Harbor Laboratory Press, Plainville, NY (1991).	
A21	Doetschman, T., et al., "Establishment of Hamster Blastocyst-Derived Embryonic Stem (ES) Cells," <i>Developmental Biology</i> , 127:224-227 (1988).	
A22	Ebert, K.M., et al., "Changes in Domestic Livestock through Genetic Engineering," in <i>Current Communications & Cell & Molecular Biology, Animal Applications of Research in Mammalian Development</i> , ed. Pederson et al., Cold Springs Harbor Laboratory Press, pp. 233-266 (1991).	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER	3/13/97	DATE CONSIDERED
----------	---------	-----------------

FORM PTO-1449		LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE		(use several sheets if necessary)	
SERIAL NO.	08/410,539	FILING DATE	March 24, 1995	APPLICANT(S): Matthew B. Wheeler	
CASE NO.	7823/5	GROUP ART UNIT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)			
A23	Evans, M.J., et al., "Establishment in culture of pluripotential cells from mouse embryos," <i>Nature</i> , 292:154-156 (1981).		
A24	Fajfar-Whetstone, C.F., et al., "Sex Determination of Porcine Pre-Implantation Embryos via Y-Chromosome Specific DNA Sequence," <i>Anim. Biotech.</i> , 4:183-193 (1993).		
A25	Flake, A.W., et al., "Transplantation of fetal hematopoietic stem cells in utero: the creation of hematopoietic chimeras," <i>Science</i> , vol. 233 (1986).		
A26	Frohman and Martin, "Cut, paste, and save: New approaches to altering specific genes in mice," <i>Cell</i> , 56:145-147 (1989).		
A27	Gosliet, A., et al., "Transgenesis by means of blastocyst-derived embryonic stem cell lines," <i>Proc. Natl. Acad. Sci. USA</i> , 83:9065-9069 (1986).		
A28	Hagen, D.R., et al., <i>J. Anim. Sci.</i> , 69:1147-1150 (1991).		
A29	Handyside, A., et al., "Towards the isolation of Embryonal Stem Cell Lines from the Sheep," <i>Roux's Arch. Developmental Biology</i> , 196:185-190 (1987).		
A30	Hasty, et al., "The length of homology required for gene targeting in embryonic stem cells," <i>Molecular and Cellular Biology</i> , 11(11):5586-5591 (1991).		
A31	Hogan, et al., "Isolation of Pluripotential Stem Cell Lines," <i>Cold Spring Harbor Laboratory - Manipulating the Mouse Embryo: A Laboratory Manual</i> , Section E:205-218 (1986).		
A32	Hooper, M.C., <i>Teratocarcinomas and Embryonic Stem Cells: A Practical Approach</i> , ed. Robertson, E.J., IRL Press, Ltd., Oxford, UK, 51-70 (1987).		
A33	Jasin and Berg, "Homologous integration in mammalian cells without target gene selection," <i>Genes & Development</i> , 2:1353-1363 (1988).		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER: <i>S. M. [Signature]</i>	DATE CONSIDERED: <i>3/13/97</i>
------------------------------------	---------------------------------

FORM PTO-1449		
LIST OF PATENTS AND PUBLICATIONS FOR		
APPLICANT'S INFORMATION DISCLOSURE		
STATEMENT		
(use several sheets if necessary)		
SERIAL NO.	08/410,539	APPLICANT(S): Matthew B. Wheeler
CASE NO.	7823/5	
GROUP ART UNIT		
FILING DATE	March 24, 1995	

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
A34	Jeannotte, et al., "Low level of Hox1.3 gene expression does not preclude the use of promoterless vectors to generate a targeted gene disruption," <i>Molecular and Cellular Biology</i> , 11(11):5578-5585.	
A35	Karg, H., "Manipulation of Lactation," in <i>Biotechnology for Livestock Production</i> , Plenum Press, New York and London, 19:181-206 (1989).	
A36	Karg, H., "Manipulation of Growth," in <i>Biotechnology for Livestock Production</i> , Plenum Press, New York and London, 18:159-180 (1989).	
A37	Kollas, G., et al., "The study of gene regulation in transgenic mice," <i>Transgenic Animals</i> , p. 92, Grosveld, et al., eds., Academic Press Limited (1992).	
A38	Lewin, H.A., et al., "Mapping Genes for Resistance to Infectious Diseases in Animals," in <i>Gene-Mapping Techniques and Applications</i> , Marcel Dekker, Inc., 13:283-304 (1991).	
A39	Mansour, et al., "Disruption of the proto-oncogene int-2 in mouse embryo-derived stem cells: A general strategy for targeting mutations to non-selectable genes," <i>Nature</i> , 336:348-352.	
A40	Martin, G.R., "Teratocarcinomas and Mammalian Embryogenesis," <i>Science</i> , 209:768-776 (1980).	
A41	Martin, G.R., "Isolation of a Pluripotent Cell Line from Early Mouse Embryos Cultured in Medium Conditioned by Teratocarcinoma Stem Cells," <i>Proc. Natl. Acad. Sci. USA</i> , 78(12):7634-7638 (1981).	
A42	Martin, P., et al., "Improvement of milk protein quality by gene technology," <i>Livestock Production Science</i> , 35:95-115 (1993).	
A43	McLaren, A., et al., <i>Nature</i> , 224, pp. 238-240 (1969).	
A44	Mintz, B., <i>Science</i> , 148, 1232-3 (1965).	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER	DATE CONSIDERED
B. Lantz	3/3/97

FORM PTO-1449		
LIST OF PATENTS AND PUBLICATIONS FOR		
APPLICANT'S INFORMATION DISCLOSURE		
STATEMENT		
(use several sheets if necessary)		
SERIAL NO.	08/410,539	APPLICANT(S): Matthew B. Wheeler
CASE NO.	7823/5	FILING DATE
		March 24, 1995
		GROUP ART UNIT

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
A45	Morgenstern and Land, <i>Nucleic Acids Res.</i> , 18:3587-3596 (1990).	
A46	Mortensen, et al., "Production of homozygous mutant ES cells with a single targeting construct," <i>Molecular and Cellular Biology</i> , 12(5):2391-2395 (1992).	
A47	Nichols, J., et al., "Establishment of germ-line-competent embryonic stem (ES) cells using differentiation inhibiting activity," <i>Development</i> , 110:1341-1348 (1990).	
A48	Notarianni, E., et al., "Maintenance and differentiation in culture of pluripotential embryonic cell lines from pig blastocysts," <i>J. Reprod. Fert., Suppl.</i> 41:51-56 (1990).	
A49	Papadannou, V.E., et al., "Growth and differentiation of an embryonal carcinoma cell line (C145b)," <i>J. Embryol. exp. Morph.</i> , 54, pp. 277-295 (1979).	
A50	Phillips, R.W., et al., Models, pp. 437-440 in <i>Swine in Biomedical Research</i> , ed. Tumbleson, M.E., Vol. 1 (Plenum Press, New York), (1986).	
A51	Piedrahita, J.A., et al., "Influence of Feeder Layer Type on the Efficiency of Isolation of Porcine Embryo-Derived Cell Lines," <i>Theriogenology</i> , 34(5):865-877 (1990).	
A52	Piedrahita, J.A., et al., "On the Isolation of Embryonic Stem Cells: Comparative Behavior of Murine, Porcine and Ovine Embryos," <i>Theriogenology</i> , 34(5):879-901 (1990).	
A53	Polge, C., "Embryo transplantation and preservation," pp. 277-291 in <i>Control of Pig Reproduction</i> , Cole, D.J.A., et al., eds., Butterworth Scientific, London (1982).	
A54	Robertson, E., et al., "Germ-line transmission of genes introduced into cultured pluripotential cells by retroviral vector," <i>Nature</i> , 323:445-448 (1986).	
A55	Robertson, E.J., "Pluripotential stem cell lines as a route into the mouse germ line," <i>Trends Genet.</i> , 2:9-13 (1987).	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER	DATE CONSIDERED
<i>B. G. ...</i>	3/13/97

FORM PTO-1449		
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE		
(use several sheets if necessary)		
SERIAL NO.	08/410,539	FILING DATE
CASE NO.	7823/5	GROUP ART UNIT
APPLICANT(S): Matthew B. Wheeler		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
A56	Robertson, E.J., "Embryo-derived Stem Cell Lines," <i>Teratocarcinomas and Embryonic Stem Cells: A Practical Approach</i> , Chap. 4(4.4.2):92, ed. Robertson, E.J., IRL Press (1987).	SC
A57	Rohrer, G.A., Alexander, L.J., Keele, J.W., Smith, T.P., Beattie, C.W., "A Microsatellite Linkage Map of the Porcine Genome," <i>Genetics</i> , 136:231-245 (1994).	
A58	Rossant, J., et al., "The developmental potential of a euploid male teratocarcinoma cell line after blastocyst infection," <i>J. Embryol. exp. Morph.</i> , 70, 99-112 (1982).	
A59	Rossant, J., et al., "The relationship between embryonic, embryonal carcinoma and embryo-derived stem cells," <i>Cell Differentiation</i> , 15:155-161 (1984).	
A60	Rudnicki, M.A., et al., "Teratocarcinomas and Embryonic Stem Cells: A Practical Approach," <i>Methods and Induction of Differentiation in Embryonal Carcinoma Cell Lines</i> , pp. 19-49, ed. Robertson, IRL Press Ltd., Oxford, England (1987).	
A61	Schook, L.B., et al., "Mapping Genes for Growth and Development," 4:75-92, in <i>Growth of the Pig</i> , ed. Hollis, CAB International, Wallingford, UK (1993).	
A62	Stims, M.M., et al., "Production of Fetuses from Totipotent Cultured Bovine Inner Cell Mass Cells," <i>Theor. Geneology</i> , 39:313 (1993).	
A63	Smith, A.G., et al., "Buffalo Rat Liver Cells Produce a Diffusible Activity which Inhibits the Differentiation of Murine Embryonal Carcinomas and Embryonic Stem Cells," <i>Dev. Biol.</i> , 121:9 (1987).	
A64	Stevens, L.C., "The development of transplantable teratocarcinomas from intratesticular grafts of pre- and post-implantation mouse embryos," <i>Dev. Biol.</i> , 21, 364-382 (1970).	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER	DATE CONSIDERED
B. Campbell	3/13/97

FORM PTO-1449		
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE		
STATEMENT (use several sheets if necessary)		
SERIAL NO.	08/410,539	APPLICANT(S): Matthew B. Wheeler
CASE NO.	7823/5	
GROUP ART UNIT		
FILING DATE	March 24, 1995	

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
A65	Strojek, R.M., et al., "A Method for Cultivating Morphologically Undifferentiated Embryonic Stem Cells from Porcine Blastocysts," <i>Theriogenology</i> , 33(4):901-913 (1990).	
A66	Talbot, N.C., et al., "Alkaline phosphatase staining of pig and sheep epiblast cells in culture," <i>Molecular Reproduction and Development</i> , 36:139-147 (1993).	
A67	Thomas, et al., "High-fidelity gene targeting in embryonic stem cells by using sequence replacement vectors," <i>Molecular and Cellular Biology</i> , 12(7):2919-2923 (1992).	
A68	Thomas, K.R., et al., "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells," <i>Cell</i> , 51:503-512 (1987).	
A69	Wall, R.J., et al., "High-level synthesis of a heterologous milk protein in the mammary glands of transgenic swine," <i>Proc. Natl. Acad. Sci. USA</i> , 88, 1696-1700 (1991).	
A70	Ware, C.B., et al., "Development of embryonic stem cell lines from farm animals," <i>Biology of Reproduction</i> , supplement, Vol. 38 (1988).	
A71	Weibel, S.K., et al., "Synchronous and asynchronous transfer of embryos in the pig," <i>J. Animal Science</i> , 30:565-568 (1970).	
A72	Wobus, A.M., et al., "Characterization of a Pluripotent Stem Cell Line Derived from a Mouse Embryo," <i>Exp. Cell Res.</i> , 152:212-219 (1984).	
A73	Murst, W., et al., "Production of targeted embryonic stem cell clones," <i>Gene Targeting A Practical Approach</i> , p. 33, Joyner, A.L., ed., IRL Press (1993).	
A74	Yates, et al., <i>Nature</i> , 313:811-815 (1985).	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER	DATE CONSIDERED
	3/13/97